E&TIFICATE OF MAILING PURSUANT TO 37 C.F.R. §1.8

I, Caitlin L. Gardner, hereby certify that this correspondence, pursuant to 37 C.F.R. §1.8, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Paul V. Cooper

Docket No.:

23438.00041

Application No.:

10/620,318

Group Art Unit:

1742

Filing Date:

July 14, 2003

Examiner:

Scott R. Kastler

TITLE:

COUPLINGS FOR MOLTEN METAL DEVICES

TRANSMITTAL PURSUANT TO 37 C.F.R. §1.97-1.98

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Commissioner:

Submitted herewith pursuant to 37 C.F.R. §1.97(c) are (1) an Information Disclosure Statement, (2) an Information Disclosure Citation Form PTO-1449, and (3) copies of the foreign references cited on the enclosed Form PTO-1449.

This statement does NOT authorize charge of the issue fee. The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R.§§1.16-1.18 (deficiency only) now or hereafter relative to this application and the resulting official document under 37 C.F.R. §1.20, or credit any overpayment to Account No. 19-3878 for which purpose a duplicate copy of this sheet is attached.

Respectfully submitted,

Matthew J. Evans Reg. No. 56,530

SOUIRE, SANDERS & DEMPSEY L.L.P. Two Renaissance Square 40 North Central Avenue, Suite 2700 Phoenix, Arizona 85004-4498 (602) 528-4124

Phoenix/325072.1

STRTIFICATE OF MAILING PURSUANT TO 37 C.F.R. §1.8

I, <u>Caitlin L. Gardner</u>, hereby certify that this correspondence, pursuant to 37 C.F.R. §1.8, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: (() 22,205

By Cartlin Gardner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Paul V. Cooper

Docket No.:

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TITLE:

3 0 2005

COUPLINGS FOR MOLTEN METAL DEVICES

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. §§1.97-1.98

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and pursuant to 37 C.F.R. §§ 1.97-1.98, applicants hereby notify the U.S. Patent and Trademark Office of the documents listed on the attached Form PTO-1449. One copy of each foreign documents listed are submitted herewith. In addition, English language transcripts for each non-English document are also provided and are believed to supply a concise explanation of relevance.

The submission of the listed documents is not intended as an admission that any such documents constitute prior art against the claims of the present application. Applicants reserve the right to dispute any of the listed documents as prior art during examination. Further, applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

In accordance with 37 C.F.R. §1.97(b), since a first Office Action on the merits has not yet been issued in the subject application, neither a statement under 37 C.F.R. §1.97(e) nor payment of a fee is required for consideration of this Information Disclosure Statement.

Applicants respectfully submit that all pending claims are patentable over the foregoing

Applicants respectfully submit that all pending claims are patentable over the foregoing references, alone or in combination. The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

Respectfully submitted,

Matthew J. Evans Reg. No. 56,530

June 20,2005

Date

Enclosures: PTO-1449

Transmittal

13 Foreign References

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Form PTO-1449 (REV. 8-83)	THE PARTY OF THE PROPERTY OF THE PARTY OF TH			ATTY. DOCKET NO. 23438.00041 APPLIC 10/620,3			ATION NO. 18		
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	~_~~·	1,100,475	06-16-14	Franckaerts	***				
		1,331,997	02-24-1920	Neal					
		1,454,967	05-15-1923	Gill					
		1,518,501	12-09-1924	Gill			-		
		1,522,765	01-13-1925	Wilke	1	l			
		1,526,851	02-17-1925	Hall					
		1,669,668	05-15-1928	Marshall					
		1,673,594	06-12-1928	Schmidt		<u></u>			
1		FO	REIGN PAT	ENT DOCUMENTS		l	l		
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO		
		0665378A1	02-08-95	EP			Yes		
		1,185,314	03-25-1970	UK			Abstract		
		1,800,446	12-11-1969	DE			Yes		
		GB 2,217,784 A	03-20-1989	UK			Abstract		
		392,268	09-1965	Switzerland	 		Yes		
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT Approf	
INITIAL	- KLI	1,717,969	06-18-1929		CEASS	CLASS	ATTROI	
		1,896,201	02-07-1933	Sterner-Rainer				
		2,038,221	04-21-1936	Kagi				
	 	209,219	10-22-1878	Bookwalter				
		2,280,979	04-28-1942	Rocke				
		2,290,961	07-28-1942	Heuer				
		2,488,447	11-15-1949	Tangen et al				
		251,104	12-20-1881	Finch		•		
		FO	REIGN PAT	ENT DOCUMENTS		,		
		DOCUMENT				SUB-	TRANSL	ATION
	REF	NUMBER	DATE	COUNTRY	CLASS	CLASS	YES	NO
		416,401	06-1974	Soviet Union			Ye Abst	
		58-48796	03-1983	Japan			Ye Ahst	ract
		63-104773	5-1998	Japan			Ye Abst	
		683,469	03-31-1964					
		773,312	10-1980	Soviet Union			Ye Abst	
	(OTHER DOCUMENT	S (Including	Author, Title, Date, Pe	rtinent Pages	s, Etc.)		
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^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 8-83)	PATEN'	EPARTMENT OF COMME T AND TRADEMARK OF		ATTY. DOCKET NO 23438.00041).	APPLICA 10/620,31	TION NO 8	
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILI DAT APPROF	E IF
		2,515,478	07-18-1950	Tooley et al.				
		2,528,210	10-31-1950	Stewart				
		2,566,892	09-04-1951	Jacobs				
		2,677,609	05-04-1954	Moore et al.				-
		2,698,583	01-04-1955	House et al.				
		2,787,873	04-09-1957	Hadley	-	,		
		2,808,782	10-08-1957	Thompson et al.				
		2,821,472	01-28-1958	Peterson et al.				
		FO	REIGN PAT	ENT DOCUMENTS		,		
		DOCUMENT				SUB-	TRANSI	LATION
	REF	NUMBER	DATE	COUNTRY	CLASS	CLASS	YES	NO
		90,756	01-1958	Norway			Ye Abst	
		942,648	11-27-1963	U.K.				
		WO 98/25031	06-11-1998	WO				
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		2,832,292	04-29-1958	Edwards				
		2,865,618	12-23-1958	Abell				
		2,901,677	08-25-1959	Chessman et al.				
		2,948,524	08-09-1960	Sweeney et al.				
		2,978,885	04-11-1961	Davison				
		2,984,524	05-16-1961	Franzen				
		2,987,885	06-13-1961	Hodge				
		3,010,402	11-28-1961	King	1			
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		3,048,384	08-07-1962	Sweeney et al.				
***		3,070,393	12-25-1962	Silverberg et al.				
		3,092,030	06-04-1963	Wunder				
		3,227,547	01-04-1966	Szekely				
		3,244,109	04-05-1966	Barske				
		3,251,676	05-17-1966	Johnson				
		3,255,702	06-14-1966	Gehrm				
		3,272,619	09-13-1966	Sweeney et al.				
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		3,289,473	12-06-1966	Louda							
	i	3,291,473	12-13-1966	Sweeney et al.							
		3,400,923	09-10-1968	Howie et al.							
		3,417,929	12-24-1968	Secrest et al.							
		3,459,133	08-05-1969	Scheffler							
		3,459,346	08-05-1969	Tinnes							
		3,487,805	01-06-1970	Satterthwaite							
		3,512,762	05-19-1970	Umbricht							
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		3,512,788	05-19-1970	Kilbane				
		3,575,525	04-20-1971	Fox et al.				
		3,618,917	11-09-1971	Fredrikson				
		364,804	06-14-1887	Cole				
		3,650,730	03-21-1972	Derham et al.				
		3,689,048	09-05-1972	Foulard, et al.				
		3,715,112	02-06-1973	Carbonnel				
	. , ,	3,743,500	07-03-1973	Foulard et al.				
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		3,814,400 3,824,042	06-04-1974 07-16-1974					
		3,785,632	01-15-1974					
		3,776,660	12-04-1973					
		3,767,382	10-23-1973					
		3,759,635	09-18-1973					
		3,753,690	08-21-1973					
		3,743,263	07-03-1973	3 Szekely				
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT	ING E IF PRIATE
		3,836,280	09-17-1974	Koch				
		3,839,019	10-01-1974	Bruno et al.				
		3,871,872	03-18-1975	Downing et al.				
		3,873,305	03-25-1975	Claxton et al.				
		3,886,992	06-03-1975	Maas et al.				
		3,915,694	10-28-1975	Ando				
11		3,954,134	05-04-1976	Maas et al.				
		3,961,778	06-08-1976	Carbonnel et al.				
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		3,966,456	06-29-1976	Ellenbaum et al.				
		3,972,709	08-03-1976	Chin et al.				
		3,984,234	10-05-1976	Claxton et al.				
		3,985,000	10-12-1976	Hartz				
		3,997,336	12-14-1976	van Linden et al.				
		4,003,560	01-18-1977	Carbonnel				, T
		4,018,598	04-19-1977	Markus				
	-	4,052,199	10-04-1977	Mangalick				
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		4,169,584	10-02-1979					
		4,144,562	03-13-1979					
		4,128,415	12-05-1978					<u>.</u> .
		4,119,141 4,126,360	11-21-1978					
		4,091,970	05-30-1978 10-10-1978					, , , , , , , , , , , , , , , , , , ,
		4,068,965	01-17-1978					
		4,055,390	10-25-1977			_		
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		4,351,514	09-28-1982	2 Koch				
		4,360,314	11-23-1982	Pennell				
		4,370,096	01-25-1983	Church				
		4,372,541	02-08-1983	Bocourt et al.				
	4,375,937 03-08-19			Cooper				
		4,392,888	07-12-1983	Eckert et al.				
		4,410,299	10-18-1983	3 Shimoyama				
		4,456,424	06-26-1984	Araoka				
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		4,456,974	06-26-1984	Cooper				
		4,470,846	09-11-1984	Dube				
		4,489,475	12-25-1984	Struttmann				
		4,504,392	03-12-1985	Groteke				
	4,537,624 08-27-198							
		4,537,625	08-27-1985	Tenhover et al.				
		4,556,419	12-03-1985	Otsuka et al.				
		4,557,766	12-10-1985	Tenhover et al.				
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^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 8-83)		EPARTMENT OF COMMI T AND TRADEMARK OF		ATTY. DOCKET NO 23438.00041).	APPLICA 10/620,31	ATION NO).
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FIL DAT APPRO	
		4,586,845	05-06-1986					<u></u>
		4,593,597	06-10-1986	5 Albrecht et al.			_	
		4,598,899	07-08-1986	6 Cooper				
		4,600,222	07-15-1986	6 Appling				
	4,609,442 09-02-198		09-02-1986	Tenhover et al.				
		4,611,790	09-16-1986	Otsuka et al.				
		4,634,105	01-06-1987	Withers et al.				
		4,640,666	02-03-1987	7 Sodergard				
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		4,651,806	03-24-1987	Allen et al.				
		4,696,703	09-29-1987	Henderson et al.				
		4,701,226	10-20-1987	Henderson et al.				
		4,714,371	12-22-1987	Cuse				
		4,717,540	01-05-1988	McRae et al.				
		4,743,428	05-10-1988	McRae et al.				
		4,747,583	05-31-1988	Gordon et al.				
		4,770,701	09-13-1988	Henderson et al.				
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Form PTO-1449 (REV. 8-83)				ATTY. DOCKET NO 23438.00041).	APPLICA 10/620,31	ATION NO).
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,		4,786,230	11-22-1988	Thut				
		4,802,656	02-07-1989	Hudault et al.				
	47.7 2	4,804,168	02-14-1989	Otsuka et al.				-
		4,810,314	03-07-1989	Henderson et al.				
		4,834,573	05-30-1989	Asano et al.			-	
		4,842,227	06-27-1989	Harrington et al.				
		4,844,425	07-04-1989	Piras et al.				
		4,851,296	07-25-1989	Tenhover et al.				
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		4,859,413	08-22-1989	Harris et al.				
		4,867,638	09-19-1989	Handtmann et al.				
		4,884,786	12-05-1989	Gillespie				
		4,898,367	02-06-1990	Cooper				
		4,923,770	05-08-1990	Grasselli et al.				
	4,930,986 06-05-199		06-05-1990	Cooper				
		4,931,091	06-05-1990	Waite et al.				
		4,940,214	07-10-1990	Gillespie				
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		4,940,384	07-10-1990	Amra et al.				-
		4,954,167	09-04-1990	Cooper				
		4,973,433	11-27-1990	Gilbert et al.				
		4,989,736	02-05-1991	Andersson et al.				
		5,006,232	04-09-1991	Lidgitt et al.				
		5,028,211	07-02-1991	Mordue et al.				
	-	5,049,841	09-17-1991	Cooper et al.				
		506,572	10-10-1893	Wagener				
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	_	5,078,572	01-07-1992	Amra et al.				
		5,088,893	12-18-1992	Gilbert et al.				
		5,092,821	03-03-1992	Gilbert et al.				
		5,098,134	03-24-1992	! Monckton				
	5,099,554 03-31-19			2 Cooper				
		5,131,632	07-21-1992	2 Olson				
		5,143,357	09-01-1992	Gilbert et al.				
		5,145,322	09-08-1992	Senior, Jr. et al.				
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·		DOCUMENT				SUB-	TRANSI	LATION
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS			
		5,152,631	10-06-1992	Bauer	1.				
		5,158,440	10-27-1992	Cooper et al.					
		5,162,858	11-10-1992	Shoji et al.					
		5,165,858	11-24-1992	Gilbert et al.					
		5,172,458	12-22-1992	? Cooper					
		5,177,304	01-05-1993	Nagel					
		5,191,154	03-02-1993	Nagel					
		5,192,193	03-09-1993	Cooper et al.					
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILI DAT APPROI	E IF
		5,202,100	04-13-1993	Nagel et al.			<u></u>	
		5,203,681	04-20-1993	Cooper				
		5,209,641	05-11-1993	Hoglund et al.				
		5,215,448	06-01-1993	Cooper				
	_	5,268,020	12-07-1993	Claxton				
		5,286,163	02-15-1994	Amra et al.			·····	
		5,298,233	03-29-1994	Nagel	-			
		5,301,620	04-12-1994	Nagel et al.				
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		5,308,045	05-03-1994	Cooper				
		5,310,412	05-10-1994	Gilbert et al.				
		5,318,360	06-07-1994	Langer et al.				
		5,322,547	06-21-1994	Nagel et al.				
		5,324,341	06-28-1994	Nagel et al.				
		5,330,328	07-19-1994	Cooper				
		5,354,940	10-11-1994	Nagel				
		5,358,549	10-25-1994	Nagel et al.				
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		5,358,697	10-25-1994	Nagel			· · · · · · · · · · · · · · · · · · ·	
		5,364,078	11-15-1994	Pelton				
		5,369,063	11-29-1994	Gee et al.				
		5,383,651	01-24-1995	Blasen et al.				
		5,388,633	02-14-1995	Mercer II et al.				
		5,395,405	03-07-1995	Nagel et al.				
		5,399,074	03-21-1995	Nose et al.				
		5,407,294	04-18-1995	Giannini				
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Form PTO-1449 (REV. 8-83)	REV. 8-83) PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 23438.00041 APPLICATION NO. 10/620,318				
INF		TION DISCLOSURE ITATION		APPLICANT Paul V. Cooper		<u> </u>		
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FIL DAT APPRO	
		5,425,410	06-20-1995	Reynolds				
		5,431,551	07-11-1995	Aquino et al.		-		
		5,435,982	07-25-1995	Wilkinson				
		5,436,210	07-25-1995	Wilkinson et al.				
		5,443,572	08-22-1995	Wilkinson et al.				<u>"</u>
		5,454,423	10-03-1995	Tsuchida et al.				
	В	5,468,280	11-21-1995	Areaux				
		5,470,201	11-28-1995	Gilbert et al.				
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		5,484,265	01-16-1996	Horvath et al.				
		5,489,734	02-06-1996	Nagel et al.				
		5,491,279	02-13-1996	Robert et al.				
		5,495,746	03-05-1996	Sigworth				
		5,505,143	04-09-1996	Nagel				
		5,509,791	04-23-1996	Turner				
		5,537,940	07-23-1996	Nagel et al.				
		5,543,558	08-06-1996	Nagel et al.				
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		5,558,501	09-24-1996	Wang et al.				
		5,558,505	08-24-1996	Mordue et al.				
		5,571,486	11-05-1996	Robert et al.				
		5,585,532	12-17-1996	Nagel	1			
		5,586,863	12-24-1996	Gilbert et al.				
		5,597,289	01-28-1997	Thut				
		5,613,245	03-18-1997	Robert				
		FO	REIGN PAT	ENT DOCUMENTS				
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		5,662,725	09-02-1997	Cooper					
		5,655,849	08-12-1997	McEwan et al.					
		5,640,709	06-17-1997	Nagel et al.					
		5,640,707	06-17-1997	Nagel et al.					
		5,640,706	06-17-1997	Nagel et al.	-				
		5,634,770	06-03-1997	Gilbert et al.					
		5,629,464	05-13-1997		 				
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Form PTO-1449	U.S. DE	PARTMENT OF COMME	RCE	ATTY. DOCKET NO. APPLICATION NO.					

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 8-83)		EPARTMENT OF COMME T AND TRADEMARK OF		ATTY. DOCKET NO 23438.00041		APPLICA 10/620,31	TION NO 8).
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT APPROI	
INITIAL	KEF	5,676,520	10-14-1997		CLASS	CLASS	ATTRO	KIATE
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		5,678,244	10-14-1997	Shaw et al.				
		5,678,807	10-21-1997	Cooper				
		5,679,132	10-21-1997	Rauenzahn et al.				****
		5,685,701	11-11-1997	Chandler et al.				
		5,690,888	11-25-1997					
		5,695,732	09-09-1997					
		5,716,195	02-10-1998	Thut				
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DOCUMENT NUMBER 5,717,149 5,718,416		APPLICANT Paul V. Cooper FILING DATE July 14, 2003 COUPLINGS FOR MI	OLTEN ME	GROUP 1742 ETAL DEV	ICES	
DOCUMENT NUMBER 5,717,149	U. S. PATEN	FILING DATE July 14, 2003 COUPLINGS FOR M	OLTEN ME	1742	ICES	
NUMBER 5,717,149	U. S. PATEN		OLTEN ME	ETAL DEV	ICES	
NUMBER 5,717,149		T DOCUMENTS				
NUMBER 5,717,149	DATE					
	LOTIL	NAME	CLASS	SUB- CLASS	DAT	ING TE IF PRIATE
5,718,416	02-10-1998	Nagel et al.				
	02-17-1998	Flisakowski et al.				
5,735,668	04-07-1998	Klien				
5,735,935	04-07-1998	Areaux				
5,741,422	04-21-1998	Eichenmiller et al.				
5,744,117	04-28-1998	Wilkinson et al.				
5,745,861	04-28-1998	Bell et al.		,		
5,755,847	05-26-1998	Quayle				
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Form PTO-1449 (REV. 8-83)		EPARTMENT OF COMMI T AND TRADEMARK OF		ATTY. DOCKET NO. APPLICATION NO. 10/620,318					
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].	Paul V. Cooper					
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INITIAL	REF	NUMBER	DATE	NAME	CLASS	CLASS	APPROI	PRIATE	
		5,772,324	06-30-1998						
		5,776,420	07-07-1998						
		5,785,494	07-28-1998	Vild et al.					
		5,805,067	09-08-1989	Bradley et al.					
		5,810,311	09-22-1998	Davison et al.					
·		5,842,832	12-01-1998	Thut					
		585,188	06-29-1897	Davis					
		5,858,059	01-12-1999	Abramovich et al.					
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HITTAL	- ICDI	5,864,316	01-26-1999		05.100	02.100		
		5,866,095	02-02-1999	McGeever et al.				
		5,875,385	02-23-1999	Stephenson et al.				
		5,935,528	08-10-1999	Stephenson et al.	 			
		5,944,496	08-31-1999	Cooper				
		5,947,705	09-07-1999	Mordue et al.				
		5,949,369	09-07-1999	Bradley et al.				
		5,951,243	09-14-1999	Cooper				
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Form PTO-1449 (REV. 8-83)		PARTMENT OF COMME T AND TRADEMARK OF		ATTY. DOCKET NO 23438.00041).	APPLICA 10/620,31	ATION NC 8).
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FIL DAT APPRO	
		5,993,726	11-30-1999	Huang				
		5,993,728	11-30-1999	Vild				
		5,995,041	11-30-1999	Bradley et al.				
		6,024,286	02-15-2000	Bradley et al.				
		6,027,685	02-22-2000	Cooper				
		6,036,745	03-14-2000	Gilbert et al.				
		6,074,455	06-13-2000	van Linden et al.				
		6,093,000	07-25-2000	Cooper				_
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT	ING E IF PRIATE	
		6,096,109	08-01-2000	Nagel et al.				.,	
		6,019,576	02-01-2000	Thut					
		6,113,154	09-05-2000	Thut					
		6,123,523	09-26-2000	Cooper					
		6,152,691	11-28-2000	Thut					
		6,187,096	02-13-2001	Thut					
		6,217,823	04-17-2001	Vild et al.					
		6,231,639	05-15-2001	Eichenmiller et al.					
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS		ING E IF PRIATE
		6,243,366	06-05-2001	Bradley et al.				
		6,250,881	06-26-2001	Mordue et al.				
		6,254,340	07-03-2001	Vild et al.			· · · · · · · · · · · · · · · · · · ·	
		6,270,717	08-07-2001	Tremblay et al.				
	-	6,280,157	08-28-2001	Cooper				
		6,298,759	09-25-2001	Thut			\ <u></u>	
		6,303,074	10-16-2001	Cooper			-	
		6,345,964	02-12-2002	Cooper				
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT	ING TE IF PRIATE
		6,358,467	03-19-2002	Mordue				
		6,398,525	06-04-2002	Cooper				
		6,439,860	08-27-2002	Greer				
		6,451,247	09-17-2002	Mordue et al.				•
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	6,457,950	10-01-2002	Cooper et al.				
		6,464,458	10-15-2002	Vild et al.				
	-	6,495,948	12-17-2002	Garrett, III				
		6,497,559	12-24-2002	Grant				
		FO	REIGN PAT	ENT DOCUMENTS	, , l - , - , 	<u> </u>		
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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 8-83) PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 23438.00041 APPLICATION NO. 10/620,318					
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		6,524,066	02-25-2003	Thut					
		6,533,535	03-18-2003	Thut					
		6,551,060	04-22-2003	Mordue et al.					
		6,648,026	11-18-2003	Look et al.				• • • • • • • • • • • • • • • • • • • •	
		6,679,936	01-20-2004	Quackenbush	-				
		6,689,310	02-10-2004	Cooper					
		6,695,510	02-24-2004	Look et al.					
·		6,709,234	03-23-2004	Gilbert et al.					
		FO	REIGN PAT	ENT DOCUMENTS			·		
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		6,716,147	04-06-2004	Hinkle et al.					
		6,723,276	04-20-2004	Cooper	1				
		6,805,834	10-19-2004	Thut					
		6,843,640	01-18-2005	Mordue et al.					
		6,848,497	02-01-2005	Sale et al.					
		6,869,271	05-24-2005	Uchida et al.					
		6,869,564	03-22-2005	Gilbert et al.					
		6,881,030	04-19-2005	Thut					
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INFORMATION DISCLOSURE CITATION				APPLICANT					
	(Use sever	al sheets if necessary)	Paul V. Cooper FILING DATE July 14, 2003	GROUP 1742					
				COUPLINGS FOR M	OLTEN ME	TAL DEV	ICES		
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	DAT	ING TE IF PRIATE	
	<u></u>	6,887,424	05-03-2005	Ohno et al.					
		6,887,425	05-03-2005	Mordue et al.					
		898,499	09-15-1908	O'Donnell					
		20010000465	04-26-2001	Thut					
		20010012758	08-09-2001	Bradley et al.					
		20020041788	04-11-2002	Look et al.					
		20020102159	08-01-2002	Thut					
		20020146313	10-10-2002	Thut					
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		20020187947	12-12-2002						
		20030059302	03-27-2003	Mordue et al.					
		20030075844	04-24-2003	Mordue et al.				·	
		20030151176	08-14-2003	Ohno et al.					
		20030185679	10-02-2003	Mordue et al.					
		20040007284	01-15-2004	Look et al.				-	
		20040022632	02-05-2004	Thut					
		20040056395	03-25-2004	Thut				,	
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		20040076533	04-22-2004	Cooper					
		20040084172	05-06-2004	Vincent et al.					
		20040115079	06-17-2004	Cooper	_				
		20040199435	10-07-2004	Abrams et al.					
		20040123970	07-01-2004	Neff					
		20040215204	10-28-2004	Davison et al.					
		20040262825	12-30-2004	Cooper					
		20050013713	01-20-2005	Cooper					
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COUPLINGS FOR MOLTEN METAL DEVICES	FILING DATE IF	
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20050013714 01-20-2005 Cooper		
20050013715 01-20-2005 Cooper		116
20050053499 03-10-2005 Cooper		
20050077730		
20050081607		
20050116398 06-02-2005 Tremblay		
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